

OIL & GAS DEVELOPMENT COMPANY LIMITED
PROCUREMENT DEPARTMENT, ISLAMABAD
FOREIGN SECTION B

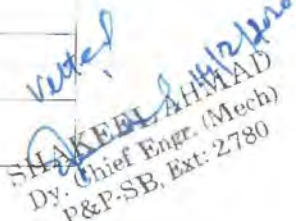
(To be completed, filled in, signed and stamped by the principal)

ANNEXURE 'A'

Material PROCUREMENT OF SPIRAL WOUND,RING JOINT & HEAT EXCHANGER GASKETS FOR ATA & ROUTINE MAINTENANCE
Tender Enquiry No AT KPD TAY PLANT.
Due Date PROC-FB/CB/P&P-4625/2020
Evaluation Criteria GROUP WISE

SCHEDULE OF REQUIREMENT

Sr No	Description	Unit	Quantity	Unit Price (FOB)	Total Price (FOB)	Unit Price C & F BY SEA	Total Price C & F BY SEA	Deviated From Tender Spec. If Any
Group A								
1	GASKET RING JOINT, R37 OVAL RING, SOFT IRON, MAX BHN 90 ASME B16.20	Number	35					
2	GASKET RING JOINT, R31 OVAL RING, SOFT IRON, MAX BHN 90 ASME B16.20	Number	40					
3	GASKET RING JOINT, R45 OVAL RING, SOFT IRON, MAX BHN 90 ASME B16.20	Number	45					
4	GASKET RING JOINT, R78 OVAL RING, SS316 ASME B16.20	Number	12					
5	GASKET RING JOINT, R49 OVAL RING, SOFT IRON, MAX BHN 90 ASME B16.20	Number	10					
6	GASKET RING JOINT, R74 OVAL RING, SS316 ASME B16.20	Number	12					
7	GASKET RING JOINT, R57 OVAL RING, SOFT IRON, MAX BHN 90 ASME B16.20	Number	14					
8	GASKET RING JOINT, R24 OVAL RING, SOFT IRON, MAX BHN 90 ASME B16.20	Number	68					
9	GASKET RING JOINT, R53 OVAL RING, SOFT IRON, MAX BHN 90 ASME B16.20	Number	8					
10	GASKET RING JOINT, R78 OCTAGONAL RING, SS316 ASME B16.20	Number	8					
11	GASKET RING JOINT, R14 OVAL RING, SOFT IRON, MAX BHN 90 ASME B16.20	Number	10					
Group B								
12	GASKET SPIRAL WOUND, 16", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8 THK, B16.20	Number	40					
13	GASKET SPIRAL WOUND, 20", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8 THK, B16.20	Number	18					
14	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 3/4", 300/600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	100					
15	GASKET SPIRAL WOUND, 24", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8 THK, B16.20	Number	65					
16	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 2", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	315					
17	GASKET SPIRAL WOUND, 32", 150#, Series-B B16.47, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8 THK, B16.20	Number	12					
18	GASKET SPIRAL WOUND, 48", 150#, Series-B B16.47, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8 THK, B16.20	Number	8					
19	GASKET SPIRAL WOUND, 8", 300#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8 THK, B16.20	Number	40					


 Dy. Chief Engr. (Mech)
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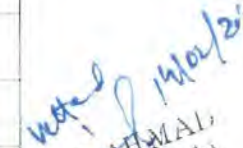
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ANNEXURE 'A'

Material PROCUREMENT OF SPIRAL WOUND,RING JOINT & HEAT EXCHANGER GASKETS FOR ATA & ROUTINE MAINTENANCE
Tender Enquiry No AT KPD-TAY PLANT.
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20	SPECIAL GASKET SPIRAL WOUND WITH INNER AND OUTER RING, 687 x 636 x 592 x 562 x 4.5THK, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, B16.20	Number	16
21	GASKET SPIRAL WOUND, 12", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8 THK, B16.20	Number	110
22	GASKET SPIRAL WOUND, 12", 600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8 THK, B16.20	Number	140
23	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 1 1/2", 600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	10
24	GASKET SPIRAL WOUND, 8", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	350
25	GASKET SPIRAL WOUND, 18", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8 THK, B16.20	Number	6
26	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 1", 300#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	80
27	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 1 1/2", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	30
28	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 4", 300#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	26
29	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 6", 600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	16
30	GASKET SPIRAL WOUND, 10", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8 THK, B16.20	Number	50
31	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 1", 600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	80
32	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 1", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	40
33	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 10", 600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	25
34	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 1 1/2", 300#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	40
35	GASKET SPIRAL WOUND, 30", 300#, Series B B16.47, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	8


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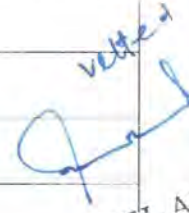
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ANNEXURE 'A'

Material PROCUREMENT OF SPIRAL WOUND,RING JOINT & HEAT EXCHANGER GASKETS FOR ATA & ROUTINE MAINTENANCE
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Evaluation Criteria GROUP WISE

Group B

36	GASKET SPIRAL WOUND, 20", 300#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	12
37	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 3/4", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8" THK, B16.20	Number	10
38	GASKET SPIRAL WOUND, 4", 600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	70
39	GASKET SPIRAL WOUND, 2", 300/600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	380
40	GASKET SPIRAL WOUND, 3", 300#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	60
41	GASKET SPIRAL WOUND, 4", 300#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	100
42	GASKET SPIRAL WOUND, 6", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	220
43	GASKET SPIRAL WOUND, 10", 600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	80
44	GASKET SPIRAL WOUND, 20", 600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	58
45	GASKET SPIRAL WOUND, 16", 600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	8
46	GASKET SPIRAL WOUND, 14", 600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	30
47	GASKET SPIRAL WOUND, 10", 300#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	35
48	GASKET SPIRAL WOUND, 24", 300#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	75
49	GASKET SPIRAL WOUND, 12", 300#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	15
50	GASKET SPIRAL WOUND, 8", 600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	90
51	GASKET SPIRAL WOUND, 6", 600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	250


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ANNEXURE 'A'

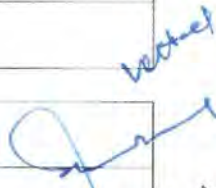
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52	GASKET SPIRAL WOUND, 3", 600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	35
53	GASKET SPIRAL WOUND, 42", 600#, Series -A B16.47, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	8
54	GASKET SPIRAL WOUND, 14", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	7
55	GASKET SPIRAL WOUND, 30", 600#, Series-A B16.47, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	6
56	GASKET SPIRAL WOUND, 24", 600#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	65
57	GASKET SPIRAL WOUND, 6", 300#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	175
58	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 3", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	220
59	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 8", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	50
60	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 4", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	280
61	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 6", 150#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	40
62	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 2", 300#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	20
63	GASKET SPIRAL WOUND WITH OUTER RING ONLY, 3", 300#, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, 1/8 THK, B16.20	Number	100
64	GASKET SPIRAL WOUND, 36", 600#, Series -B B16.47, WINDING: SS304/316, FILLER MAT: FLEXIBLE GRAPHITE, OUTER RING MAT: CS, INNER RING MAT: SS316L, 1/8" THK, B16.20	Number	12

Group C

65	E-4401/ E-5401, Channel gasket (1088 OD x 1038 x 1018mm x 10mm thick rib x 4.5 mm thickness spiral wound gasket. Material: Graphite + SS 316 -L), As per drawing # A44-01-MEF-DWG-14-07, Part # 24	Number	8
66	E-4401/ E-5401, Shell gasket (1088 OD x 1038 x 1018 x 4.5 mm thickness spiral wound gasket, Material: Graphite + SS 316 -L), as per drawing # A44-01-MEF-DWG-14-07, Part # 22	Number	8
67	E-4402/5402, Channel gasket (797 OD x 741 x 731 x Rib 10mm thick x 4.45mm thickness spiral gasket as per drawing, inner ring is of SA-240 316 -L.	Number	8


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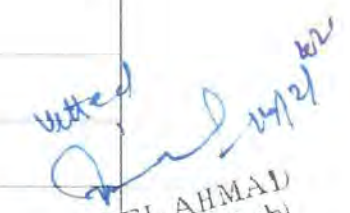
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Group C

	filling with flexible graphite), Drawing # A44-01-MEF-DWG-15-04, Part # 22		
68	E-4402/5402, Shell gasket (797 OD x 741 x 721 x 4.45 mm thickness spiral gasket as per attached drawing, inner ring is SA-240 316-L filling with flexible graphite), Drawing # A44-01-MEF-DWG-15-04, Part # 21	Number	8
69	E-4403/ E-5403, Channel Gasket (1016 OD x 966 x 946 x rib 10 mm thick x 4.5 mm thickness spiral wound gasket. Material: Graphite + SS-316-L), as per drawing # A44-01-MEF-DWG-16-07, Part # 24	Number	8
70	E-4403/ E-5403, Shell Gasket (1016 OD x 966 x 946 x 4.5 mm thickness spiral wound gasket. Material: Graphite + SS-316-L), as per drawing # A44-01-MEF-DWG-16-07, Part # 22	Number	8
71	E-4405/ E-5405, Channel Gasket (1274 OD x 1234 x 1219mm x rib 10mm thick x 4.5 mm thickness spiral wound gasket. Material: SS316L/ F.G), as per drawing # A44-01-MEF-DWG-17-04, Part # 2	Number	8
72	E-4405/ E-5405, Floating Head Gasket (1211 OD x 1179 x 1175mm x 10mm rib x 4.5 mm thickness spiral wound gasket. Material: SS316L/ F.G), as per drawing # A44-01-MEF-DWG-17-04, Part # 11	Number	8
73	E-4405/ E-5405, Shell Gasket (1274 OD x 1234 x 1219mm x 4.5 mm thickness spiral wound gasket, Material: SS316L/ F.G), as per drawing # A44-01-MEF-DWG-17-04, Part # 3	Number	8
74	E-4405/ E-5405, Shell cover gasket (1375 OD x 1335 x 1321mm x 4.5 mm thickness spiral wound gasket. Material: SS316L/ F.G), as per drawing # A44-01-MEF-DWG-17-04, Part # 15	Number	8
75	E-4406 A/B & E-5406 A/B, Channel Gasket (1808 OD x 1759 x 1732 x 10mm rib x 4.5mm thickness. Material Graphite + SS 316-L, filled with flexible graphite for the band the ring to enhance the wound pad), Dwg # A44-01-MEF-DWG-18-03, Part # 5	Number	12
76	E-4406 A/B & E-5406 A/B, Shell Gasket (1808 OD x 1759 x 1732 x 4.5mm thickness. Material Graphite + SS 316-L, As per drawing # A44-01-MEF-DWG-18-03, Part # 7	Number	12
77	E-4501/ E-5501, Channel gasket (841 OD x 759mm ID x 10 mm rib x 5 mm thickness kamprofile AISI 304, filled with graphite), as per drawing # 2307-E-4501/5501-ME-DW-30210 (sheet 1 of 4), Part # 21	Number	8
78	E-4501/ E-5501, Floating head gasket (740 OD x 666mm ID x 5 mm thickness kamprofile AISI 304, filled with graphite), as per drawing # 2307-E-4501/5501-ME-DW-30210 (sheet 3 of 4), Part # 8	Number	8
79	E-4501/ E-5501, Shell cover gasket (1012 OD x 918mm ID x 5 mm thickness kamprofile AISI 304, filled with graphite), as per drawing # 2307-E-4501/5501-ME-DW-30210 (sheet 1 of 4), Part # 28	Number	8
80	E-4501/ E-5501, Shell gasket (841 OD x 761 ID x 5 mm thickness kamprofile AISI 304, filled with graphite), as per drawing # 2307-E-4501/5501-ME-DW-30210 (sheet 1 of 4), Part # 23	Number	8
81	E-4502/ E-5502, Channel gasket (523 OD x 463 ID x 10mm rib x 5 mm thickness kamprofile AISI 304, filled with graphite), as per drawing # 2307-E-4502/5502-ME-DW-30240 (sheet 1 of 3), Part # 21	Number	8
82	E-4502/ E-5502, Shell gasket (523 OD x 465 ID x 5 mm thickness kamprofile AISI 304, filled with graphite), as per drawing # 2307-E-4502/5502-ME-DW-30240 (sheet 1 of 3), Part # 23	Number	8


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83	E-4503/ E-5503, Shell and Channel gasket (634 OD x 574 ID x 5 mm thickness kamprofile AISI 304, filled with graphite), as per drawing # 2307-E-4503/5503-MEF-DW-30270 (sheet 1 of 3), Part # 23	Number	12
84	E-4504/ E-5504, Shell Gasket (1038 OD x 990 x 930mm x 4.5 mm thickness spiral wound gasket, Material: SS316L/ F.G), as per dawing # B45-01-MEF-DWG-10-03, Part # 5	Number	8
85	E-4504/ E-5504,Channel Gasket (1038 OD x 990 x 930mm x rib 10mm thick x 4.5 mm thickness spiral wound gasket, Material: SS316L/ F.G), as per dawing # B45-01-MEF-DWG-10-03, Part # 4	Number	8
86	E-4505/ E-5505, Channel gasket (1033 OD x 983 x 963mm x 10mm rib x 4.5 mm thickness spiral wound gasket, Material: SS304L + Expanded Graphite), as per drawing # B45-01-MEF-DWG-11-05, Part # 2	Number	8
87	E-4505/ E-5505, Shell gasket (1033 OD x 983 x 963mm x 4.5 mm thickness spiral wound gasket, Material: SS304L + Expanded Graphite), as per drawing # B45-01-MEF-DWG-11-05, Part # 3	Number	8
88	E-4507/ E-5507, Channel gasket (776 OD x 736 x 716mm x 10mm rib x 4.5 mm thickness spiral wound gasket, Material: S30408 + Graphite), as per drawing # B45-01-MEF-DWG-12-03, Part # 2	Number	8
89	E-4507/ E-5507, Shell gasket (776 OD x 736 x 716mm x 4.5 mm thickness spiral wound gasket, Material: S30408 + Graphite), as per drawing # B45-01-MEF-DWG-12-03, Part # 3	Number	8
90	E-7101/ E-7201, Channel gasket (699 OD x 649 x 629mm x 10mm rib x 4.5 mm thickness spiral wound gasket, Material: SS316L + Graphite), as per drawing # B71-01-MEF-DWG-14-05, Part # 2	Number	8
91	E-7101/ E-7201, Shell gasket (699 OD x 649 x 629mm x 4.5 mm thickness spiral wound gasket, Material: SS316L + Graphite), as per drawing # B71-01-MEF-DWG-14-05, Part # 3	Number	8

Note: DELIVERY PERIOD FOR THESE ITEMS IS 70-80 DAYS ON C&F BY SEA KARACHI FROM THE DATE OF L/C IS ESTABLISHED.

Checked

 14/2/2020
HAKEEL AHMAL
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TERMS & CONDITIONS.

1. ALL GASKETS SHOULD BE NEW, FREE FROM ANY DEFECT & MUST BE IN ORIGINAL OEM PACKING.
2. DEFECTS, TWISTS AND DEFORMATION WHICH MAY AFFECT THE TIGHTNESS OF THE GASKET ARE NOT ALLOWED.
3. DIMENSIONS, TOLERANCES, HARDNESS, MARKING, FABRICATION, INSPECTION & ACCEPTANCE SHALL BE AS PER ASME B 16.20.
4. INSPECTION OF THE HEAT EXCHANGER GASKETS WILL BE CARRIED OUT AS PER PROVIDED DRAWINGS. ALL DRAWING MENTIONED IN THE SOR ARE ATTACHED.
5. THE MARKING SHALL BE APPLIED SO AS NOT TO HARMFULLY DISTORT THE GASKET OR AFFECT THE INTEGRITY OF THE SEAL.
6. FABRICATION, INSPECTION AND ACCEPTANCE SHALL COMPLY WITH ASME B16.20 (LATEST EDITION).
7. IF BIDDER FOUND ANY AMBIGUITY IN DRAWINGS, DESCRIPTION / TECHNICAL DETAIL, IT SHOULD BE CLEARED PRIOR TO BID SUBMISSION.
8. BIDDER MUST MENTION THE MANUFACTURER OF THE OFFERED / QUOTED GASKETS IN THE TECHNICAL BID.
9. BIDDER MUST PROVIDE THE TECHNICAL BROCHURE OF THE OFFERED / QUOTED GASKETS IN TECHNICAL BID.
10. GASKET MANUFACTURER SHOULD NOT HAVE LESS THAN 20 YEARS MANUFACTURING EXPERIENCE. IN CASE OF NON-CONFORMANCE TO EXPERIENCE BID WILL NOT BE ACCEPTED & BIDDER WILL BE TECHNICALLY DISQUALIFIED.
11. EVALUATION WILL BE CARRIED ON GROUP BASIS I.E SPIRAL WOUND, RTJ & HEAT EXCHANGERS GASKETS WILL BE TECHNICALLY EVALUATED & FINANCIALLY COMPARED SEPARATELY. BIDDER SHALL MENTION THE FREIGHT CHARGES FOR ALL THREE GROUPS SEPARATELY.
12. MATERIAL TEST CERTIFICATE IS TO BE PROVIDED ALONG WITH THE DELIVERY.
13. DELIVERY PERIOD IS 70-80 DAYS AFTER ISSUANCE OF LC.

NOTE:

01: PAYMENT WILL BE MADE AS PER THE FOREIGN PROCUREMENT PAYMENT TERMS AVAILABLE AT OGDCL WEBSITE (TENDERS TAB) EFFECTIVE FROM FEBRUARY 27, 2018.

02: PURSUANT TO TENDER CLAUSE # 2.2, 11.4, 13 & 35.3.2, A BID BOND MUST BE SUBMITTED WITH THE TECHNICAL BID AND IT MUST BE VALID FOR 150 DAYS FROM THE DATE OF OPENING OF THE BID. AMOUNT OF BID BOND FOR EACH GROUP IS MENTIONED BELOW:

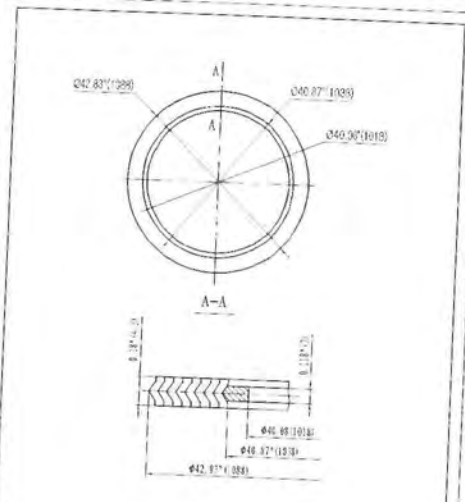
GROUP-A: RTJ GASKETS = US\$ 500/-

GROUP-B: SPIRAL WOUND GASKETS = US\$ 1,400/-

GROUP-C: HEAT EXCHANGER GASKETS =US\$ 2,200/-

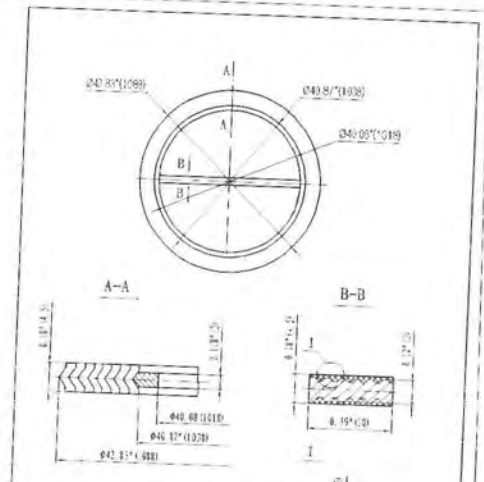
03. BID BOND/ PERFORMANCE BOND WILL NOT BE ACCEPTABLE WITH THE BANKS WHOSE MARKET PRICE PER SHARE IS QUOTED BELOW THE PAR VALUE AT THE PAKISTAN STOCK EXCHANGE.

Checked
Shakeel Ahmad
12/02/2020
SHAKEEL AHMAD
Dy. Chief Engr. (Mech)
P&P-SB, Ext: 2780



Technical requirements
 1. The flange shall be welded and coated with the following material: (a) Inside surface: epoxy resin, phenolic, epoxy and bonding.
 2. Both surfaces of gasket shall be flat and smooth, with sharp chamfers. It shall be well through inspection, smooth and covered the entire the working is flat and level. Flatness shall be per reference surface shall be exceed $0.01^{+0.02}$ mm. The flatness deviation shall not be in the range less than 20°.

22	FLANGE	DRG. NO.	---	---	---	---	---	---	---
ITEM	PARTS NAME	MAT'L	WSS	SCALE	DRG. NO.	ASST. DRG. NO.	REV.	DATE	BY

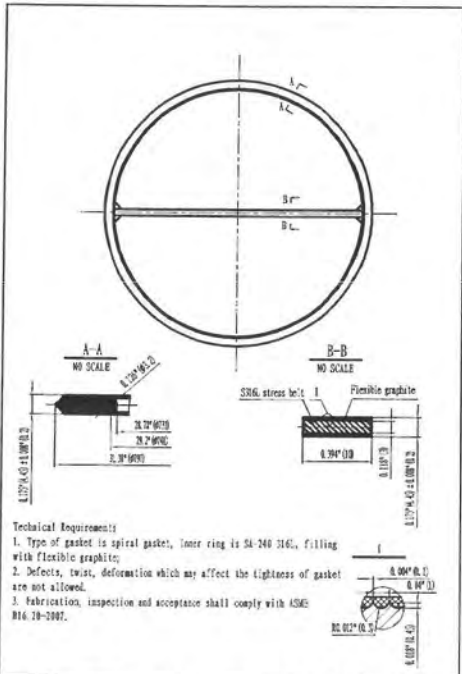


Technical requirements
 1. The gasket shall be installed and welded with the following material: (a) Inside surface: epoxy resin, phenolic, epoxy and bonding.
 2. Both surfaces of gasket shall be flat and smooth, with sharp chamfers. It shall be well through inspection, smooth and covered the entire the working is flat and level. Flatness shall be per reference surface shall be exceed $0.01^{+0.02}$ mm. The flatness deviation shall not be in the range less than 20°.

24	FLANGE	DRG. NO.	---	---	---	---	---	---	---
ITEM	PARTS NAME	MAT'L	WSS	SCALE	DRG. NO.	ASST. DRG. NO.	REV.	DATE	BY

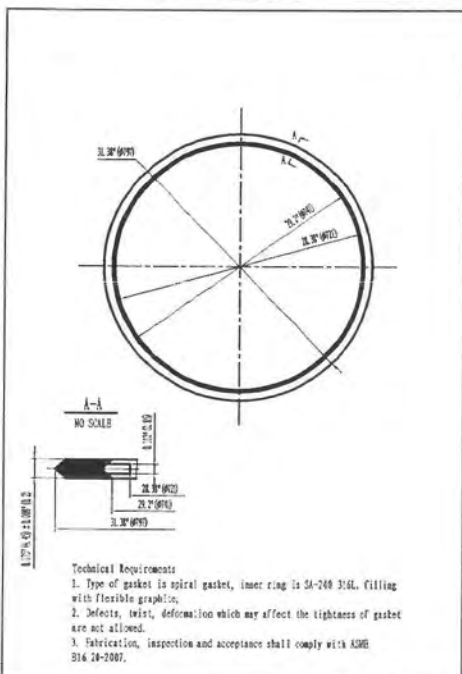
PARTS DRAWING FOR		DRG. NO.	---
INLET GAS TRIM COOLER		DRG. NO.	---
REV.	SCALE	TOTAL	6 PAGES
			6 PAGES

Shakeel Ahmad
SHAKEEL AHMAD
 Dy. Chief Engr. (Mech)
 P&P-SB, Ext. 2780



Technical Requirements:
 1. Type of gasket is spiral gasket, inner ring is SA-240 316L, filling with flexible graphite;
 2. Defects, twist, deformation which may affect the tightness of gasket are not allowed.
 3. Fabrication, inspection and acceptance shall comply with ASME B16.28-2007.

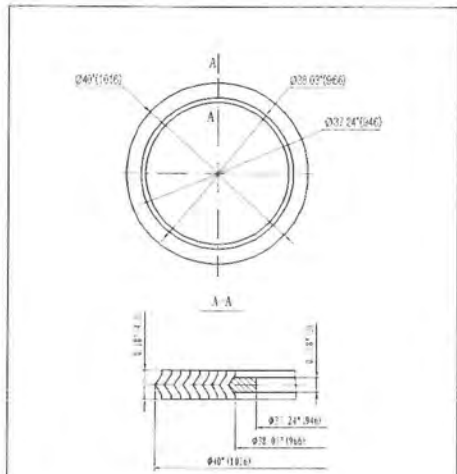
22	CHANNEL GASKET	S.S316L/P.G	/	1:8	APP-01-ME-DES-15-04	APP-01-ME-DES-15-04
PARTS NO.	PARTS NAME	MATERIAL	(MS/DN)	SCALE	DRW NO.	ASST. DWG NO.



Technical Requirements:
 1. Type of gasket is spiral gasket, inner ring is SA-240 316L, filling with flexible graphite;
 2. Defects, twist, deformation which may affect the tightness of gasket are not allowed.
 3. Fabrication, inspection and acceptance shall comply with ASME B16.28-2007.

21	SHELL GASKET	S.S316L/P.G	/	1:8	APP-01-ME-DES-15-04	APP-01-ME-DES-15-04
PARTS NO.	PARTS NAME	MATERIAL	(MS/DN)	SCALE	DRW NO.	ASST. DWG NO.

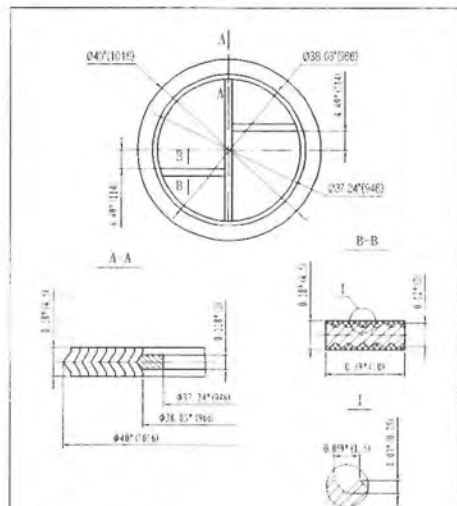
BOARD: 25 /



Technical requirements

1. The strap shall be overlay and wound with the filling material, contacting tightly, layers evenly, no wrinkle, space and bending.
2. Both surfaces of gasket shall be flat and smooth, with clear texture. Radial cut-through, indentation, concave or convex that weakens the sealing is not allowed. Flatness against any reference surface shall not exceed $0.031^{+0.04}$. The flatness deviation shall not lie in the range less than 20° .

22	GASKET	SH. S. S.	---	---	PHENOL	PHENOL
ITEM	PARTS NAME	MAT'L	QTY	SCALE	DRG NO	ISS. DRG NO



Technical requirements

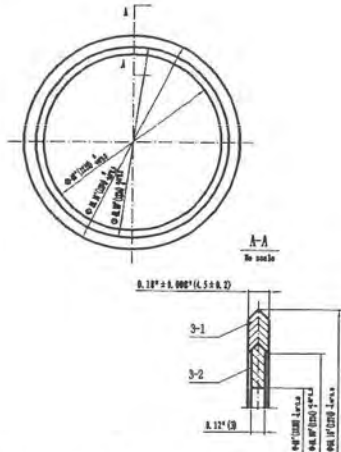
1. The strap shall be overlay and wound with the filling material, contacting tightly, layers evenly, no wrinkle, space and bending.
2. Both surfaces of gasket shall be flat and smooth, with clear texture. Radial cut-through, indentation, concave or convex that weakens the sealing is not allowed. Flatness against any reference surface shall not exceed $0.031^{+0.04}$. The flatness deviation shall not lie in the range less than 20° .

24	GASKET	SH. S. S.	---	---	PHENOL	PHENOL
ITEM	PARTS NAME	MAT'L	QTY	SCALE	DRG NO	ISS. DRG NO

PARTS DRAWING FOR TREATED GAS STEAM COOLER		DRG NO.	E-4006-5-03
		PLN	DESK 30 DESIGN
		DRG NO.	1942-SEE 306-4-01
REV	SCALE	DATE	7-PAGE 6 PAGE

Technical Requirements

1. Fabrication and acceptance of gasket shall be as per ASME B 16.20-2007.

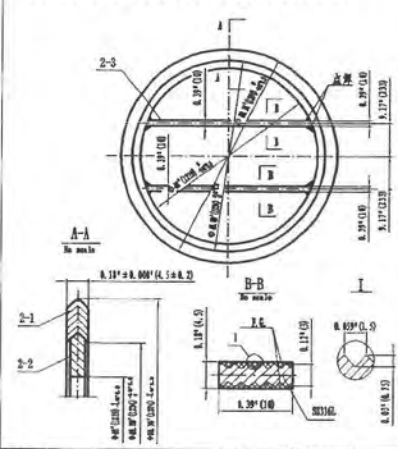


3-3		PLAT STEEL	1	SS316L				
3-1		GASKET	1	SS316L/P.C.				
ITEM	FIG NO OR REV NO.	PART NAME	QTY	MATERIAL	STANDARD SPECIFICATION	REMARKS	ISSUE NO	REV
3		SHELL GASKET					10-0-000-00-10-0	10-0-000-00-10-0
ITEM	PART NAME	QUANTITY	REVISION	SCALE	DATE	BY	CHKD	APP'D

Technical Requirements

1. Fabrication and acceptance of gasket shall be as per ASME B 16.20-2007.

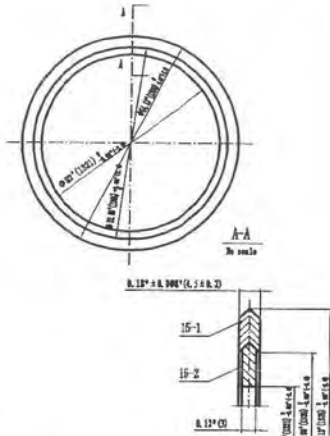
2. Each pad parts and vessel gasket shall be laser ring joint welding, SS316L plate shall be as per ASME II.



3-3		GASKET	2	SS316L/P.C.				
3-1		PLAT STEEL	1	SS316L				
3-1		GASKET	1	SS316L/P.C.				
ITEM	FIG NO OR REV NO.	PART NAME	QTY	MATERIAL	STANDARD SPECIFICATION	REMARKS	ISSUE NO	REV
3		GASKET					10-0-000-00-10-0	10-0-000-00-10-0
ITEM	PART NAME	QUANTITY	REVISION	SCALE	DATE	BY	CHKD	APP'D

Technical Requirements

1. Fabrication and acceptance of gasket shall be as per ASME B 16.20-2007.

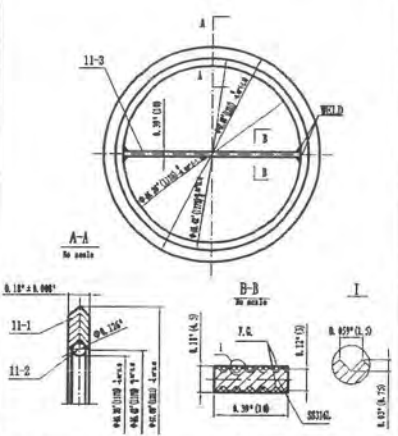


15-2		PLAT STEEL	1	SS316L				
15-1		GASKET	1	SS316L/P.C.				
ITEM	FIG NO OR REV NO.	PART NAME	QTY	MATERIAL	STANDARD SPECIFICATION	REMARKS	ISSUE NO	REV
15		GASKET					10-0-000-00-10-0	10-0-000-00-10-0
ITEM	PART NAME	QUANTITY	REVISION	SCALE	DATE	BY	CHKD	APP'D

Technical Requirements

1. Fabrication and acceptance of gasket shall be as per ASME B 16.20-2007.

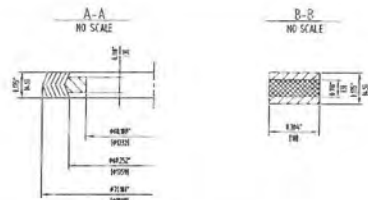
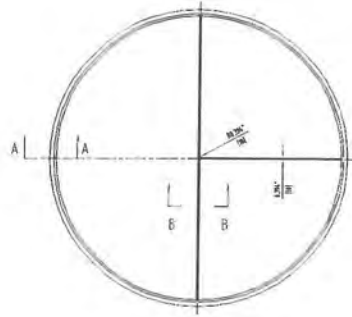
2. Each pad parts and vessel gasket shall be laser ring joint welding, SS316L plate shall be as per ASME II.



11-3		GASKET	1	SS316L/P.C.				
11-2		PLAT STEEL	1	SS316L				
11-1		GASKET	1	SS316L/P.C.				
ITEM	FIG NO OR REV NO.	PART NAME	QTY	MATERIAL	STANDARD SPECIFICATION	REMARKS	ISSUE NO	REV
11		FLANGE GASKET					10-0-000-00-10-0	10-0-000-00-10-0
ITEM	PART NAME	QUANTITY	REVISION	SCALE	DATE	BY	CHKD	APP'D

PARTS DRAWING FOR	DEPT. NO.	24485/25-05
LEAN AREA TIRE COOLER	FIGURE	DETAILED DESIGN
REV. NO.	144-01-000-000-17-04	
REV.	1	SCALE
FIGURE NO.	17	PAGE NO.

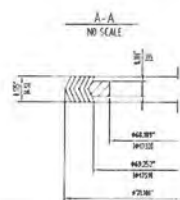
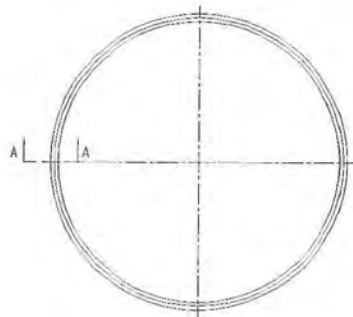
2/8



TECHNICAL REQUIREMENTS

- 1. THE MANUFACTURING OF THIS PIECE, EXAMINATION AND ACCEPTANCE ACCORDING TO ASME B1.20 STANDARD PERFORMANCE.
- 2. PARTS OF THE STRIP FOR 5th, FILLED WITH FLEXIBLE GRAPHITE FOR THE BAND THE RING TO ENHANCE THE WORKING PART.
- 3. EXCEPT NOTED, ALL FILLETS ARE R1/32" ROUNDED.

5	GASKET 1	GRAPHITE-SS316L	/	/	PRE1312-02	PSE1312-00
PARTS NO	PARTS NAME	MATL	MASSES	SCALE	DWG NO	ASSY DWG NO

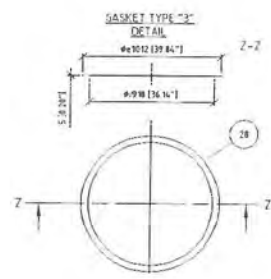
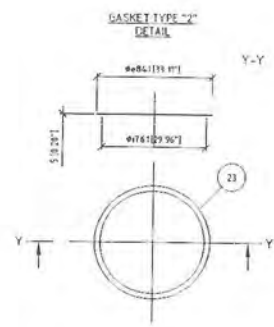
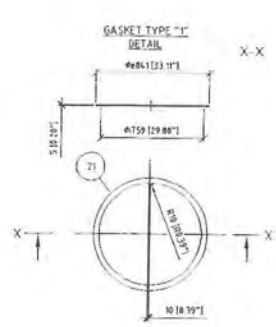


TECHNICAL REQUIREMENTS

- 1. THE MANUFACTURING OF THIS PIECE, EXAMINATION AND ACCEPTANCE ACCORDING TO ASME B1.20 STANDARD PERFORMANCE.
- 2. PARTS OF THE STRIP FOR 5th, FILLED WITH FLEXIBLE GRAPHITE FOR THE BAND THE RING TO ENHANCE THE WORKING PART.
- 3. EXCEPT NOTED, ALL FILLETS ARE R1/32" ROUNDED.

7	GASKET 2	GRAPHITE-SS316L	/	/	PRE1312-02	PSE1312-00
PARTS NO	PARTS NAME	MATL	MASSES	SCALE	DWG NO	ASSY DWG NO

Document no:	Drawing no: PSE1312-02			
Part Drawing for Amine Regenerator Rebuilder				
Document no:	ALL-97-NI-DWG-70-83	Dr. no:	in. 00	Scale:
E-1161/E-5406 A.G.		1/16"		Rev: A
Sheet no:	3	of:	3	



28	1	Gasket Type "3"	See Detail	Complies AS 39, Not with Graphite	31	-	m=2, y=216 HP a
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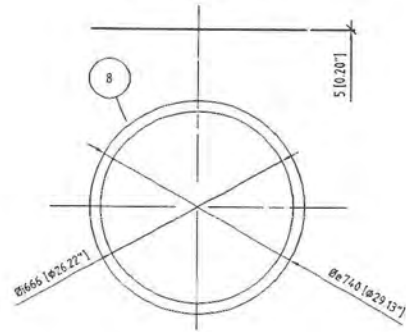
23	1	Gasket Type "2"	See Detail	Complies AS 39, Not with Graphite	31	-	m=2, y=216 HP a
----	---	-----------------	------------	-----------------------------------	----	---	-----------------

21	1	Gasket Type "1"	See Detail	Complies AS 39, Not with Graphite	31	-	m=2, y=216 HP a
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Def	Rev	Qty	Description	Standard	Material	Impact	Cell	Minum	Notes

DOCUMENT TYPE		DOCUMENT NUMBER	
CONSTRUCTION DRAWING FOR REGENERATION GAS PRE HEATER E-4501, E-5501		2307-0101/5501/E-DW-3228	
LOCATION	PLANT	SCALE	SHEET
PARISTAR	GAS DEHYDRATION UNITS	1:1	1 of 4

GASKET DETAIL



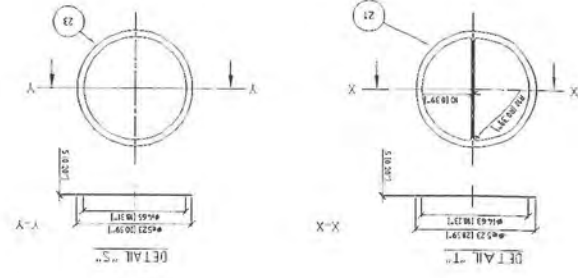
	8	1	Gasket	See Detail	Kamprofile AISI 316 - Graphite filled	-	3.1	-	m=2; y=27.6 MPa
--	---	---	--------	------------	---------------------------------------	---	-----	---	-----------------

Det.	Item	Qty	Description	Standard	Material	Impct	Cert	Tolerance	Note
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DOCUMENT TYPE		DOCUMENT NUMBER		
CONSTRUCTION DRAWING FOR REGENERATION GAS PRE HEATER		2307-E4501/5501-ME-DW-36210		
E-4501; E-5501				
LOCATION	PLANT	SCALE	SHEET	REV No.
PAKISTAN	GAS DEHYDRATION UNITS	1:25	3 of 4	01
1/	1/	1/	1/	1/

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DOCUMENT NUMBER		DOCUMENT TYPE	
CONSTRUCTION DRAWING FOR POLYETHYLENE SERVO REGULATOR HEATER			
E-4592-C-5592		SCALE	
REV. NO.		SHEET	
1 of 3		15	
PAKISTAN		GAS OPERATING UNITS	
13		16	

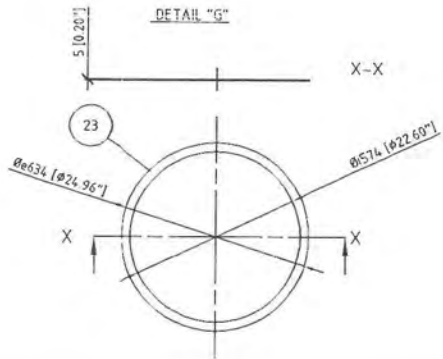
Date	Item	Qty	Description	Standard	Material	Insert	Expt	Design	Note
------	------	-----	-------------	----------	----------	--------	------	--------	------

23	1	Gaslet Type "C"	See Detail	Engineering BK	Gaslet Head	-	1/1	-	m-2, p-27 & p-28
22	1	Gaslet Type "T"	See Detail	Engineering BK	Gaslet Head	-	1/1	-	m-2, p-27 & p-28

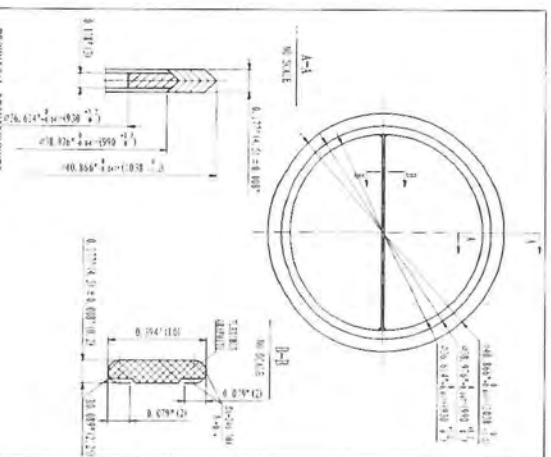
© 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025

	23	2	Gasket	See Detail	Kamproffe AISI304-Graphit filled	-	3.1	-	m=2,y=27.6 MPa
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Def.	Item	Qty	Description	Standard	Material	Impct.	Cert.	Interax	Note
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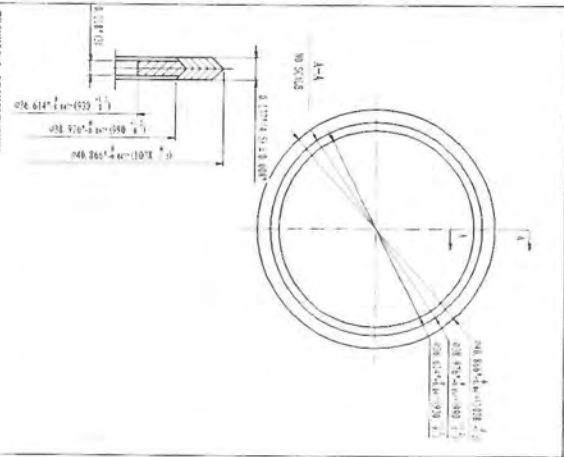
DOCUMENT TYPE			DOCUMENT NUMBER		
CONSTRUCTION DRAWING FOR FEED GAS COOLERS E-4503; E-5503			2307-E4503/5503-ME-DW-30270		
LOC	PLANT	SCALE	SHEET	REV No	
PAKISTAN	GAS DEHYDRATION UNITS	1:25	1 of 3	01	



TECHNICAL REQUIREMENTS

1. TYPE OF CASSET IS SPECIAL CASSET. INNER KING IS SA-508 STEEL FILLING WITH FIBERGLASS CASSETTE.
2. DEFECTS, TENSIL, DEFORMATION WHICH MAY AFFECT THE THICKNESS OF CASSET ARE NOT ALLOWED.
3. FABRICATION, INSPECTION AND ACCEPTANCE SHALL COMPLY WITH CODE B.S. 20-200.

4	SHALL CASSET	8.1274 (32.38) IPT	0.1174 (4.62) IPT	1:1.5	ISO 9000:2015	ISO 9001:2015
DATE:	REVISED:	NO:	SCALE:	NO:	REVISED:	NO:



TECHNICAL REQUIREMENTS

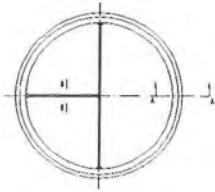
1. TYPE OF CASSET IS SPECIAL CASSET. INNER KING IS SA-508 STEEL FILLING WITH FIBERGLASS CASSETTE.
2. DEFECTS, TENSIL, DEFORMATION WHICH MAY AFFECT THE THICKNESS OF CASSET ARE NOT ALLOWED.
3. FABRICATION, INSPECTION AND ACCEPTANCE SHALL COMPLY WITH CODE B.S. 20-200.

5	SHELL CASSET	8.1274 (32.38) IPT	0.1174 (4.62) IPT	1:1.5	ISO 9000:2015	ISO 9001:2015
DATE:	REVISED:	NO:	SCALE:	NO:	REVISED:	NO:

PARTS DRAWING FOR

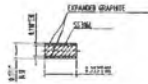
SHELLS FOR COMPRESSION CASSET

REV	1	SCALE	1:5	DATE	10/01/2024	DESIGNED BY	RAJESH K. SINGH
						CHECKED BY	RAJESH K. SINGH
						APPROVED BY	RAJESH K. SINGH



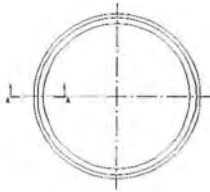
A-A

B-B



TECHNICAL SPEC:
1. THE MANUFACTURING, EXAMINATION AND ACCEPTANCE OF THIS PIECE SHOULD BE ACCORDING TO ASME B31.2

2	GASKET 1	CONC-EDGED O-RING	/	/	P02016-04	P02016-04
PARTS NO.	PARTS NAME	MATL.	PROCESSE	SCALE	DWG. NO.	ASSY. DWG. NO.



A-A

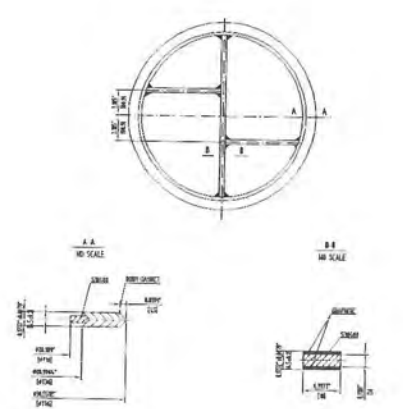


TECHNICAL SPEC:
1. THE MANUFACTURING, EXAMINATION AND ACCEPTANCE OF THIS PIECE SHOULD BE ACCORDING TO ASME B31.2

3	GASKET 2	CONC-EDGED O-RING	/	/	P02016-04	P02016-04
PARTS NO.	PARTS NAME	MATL.	PROCESSE	SCALE	DWG. NO.	ASSY. DWG. NO.

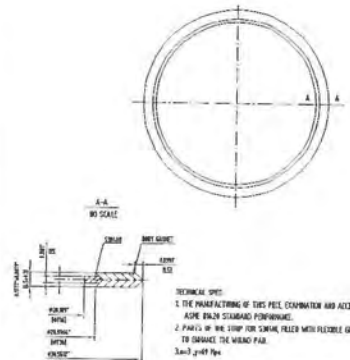
Part Drawing for		Drawing n. BAS-41-REF-DWG-11-45	
DE-ETANKEUR REBOILER		dra. n°	scale
S-4582AE-0545		-	1/5
sheet n. 5	of 6		Rev A

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TECHNICAL SPEC:
 1. THE MANUFACTURING OF THIS PEEI, EXAMINATION AND ACCEPTANCE ACCORDING TO ASME B16.25 STANDARD PERFORMANCE.
 2. PARTS OF THE CRIP FOR SWAGE, FILLED WITH FLEXIBLE GRAPHITE FOR THE BAND THE KING TO ENHANCE THE WEARING PAIR.
 3. ± 0.07 mm

PARTS NO	PARTS NAME	MATL	HAZSDM	SCALE	DWG NO	ASSY DWG NO
2	LEFT GASKET	SWAGE-GRAPHITE	/	/	PGE0313-01	PGE0313-00



TECHNICAL SPEC:
 1. THE MANUFACTURING OF THIS PEEI, EXAMINATION AND ACCEPTANCE ACCORDING TO ASME B16.25 STANDARD PERFORMANCE.
 2. PARTS OF THE CRIP FOR SWAGE, FILLED WITH FLEXIBLE GRAPHITE FOR THE BAND THE KING TO ENHANCE THE WEARING PAIR.
 3. ± 0.07 mm

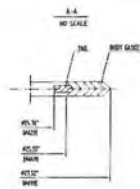
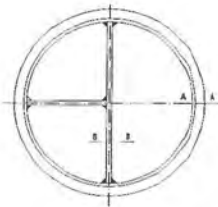
PARTS NO	PARTS NAME	MATL	HAZSDM	SCALE	DWG NO	ASSY DWG NO
3	RIGHT GASKET	SWAGE-GRAPHITE	/	/	PGE0313-02	PGE0313-00

Part Drawing For
 DE-AUTOMATED REORDER
 1-APRIL-2007

PGE0313-01
 Drawn by: BCL-01-001 (BCL-01-01)
 Date: 01/04/07
 Scale: 1:1
 No: 1

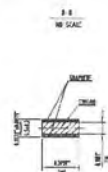
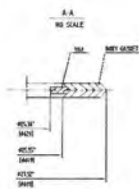
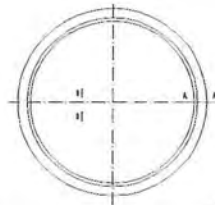
Sheet no. 1 of 1

Iqbal Ahma
 Iqbal Ahma
 Chief Engr. (Mech)
 P&P-SB, Ext 2750



TECHNICAL SPEC:
 1. THE MANUFACTURING OF THIS PART, EXAMINATION AND ACCEPTANCE ACCORDING TO ASME B16.3 STANDARD PERFORMANCE.
 2. PARTS OF THE STRIP FOR SUBSTRATE FILLED WITH FLEXIBLE GRAPHITE FOR THE BAND THE RING TO ENHANCE THE WOUND PAD.
 3. $\mu = 1.2 \times 10^{-4}$ Pa

PARTS NO	PARTS NAME	MAT'L	MASSRM	SCALE	DWG NO.	ASSY DWG NO.
2	LEFT GASKET	316L+GRAPHITE	/	/	PIE216-A	PIE216-B



TECHNICAL SPEC:
 1. THE MANUFACTURING OF THIS PART, EXAMINATION AND ACCEPTANCE ACCORDING TO ASME B16.3 STANDARD PERFORMANCE.
 2. PARTS OF THE STRIP FOR SUBSTRATE FILLED WITH FLEXIBLE GRAPHITE FOR THE BAND THE RING TO ENHANCE THE WOUND PAD.
 3. $\mu = 1.2 \times 10^{-4}$ Pa

PARTS NO.	PARTS NAME	MAT'L	MASSRM	SCALE	DWG NO.	ASSY DWG NO.
3	RIGHT GASKET	316L+GRAPHITE	/	/	PIE216-A	PIE216-B

Drawing no. PIE216-B	
Parts Drawing For	
Stabilizer Sub-assy	
C-78004-1201	
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